

Lesson Overview



In this lesson, we will first look at **deep learning**. You'll learn about:

- The differences between classical machine learning and deep learning
- The benefits and applications of Deep Learning
- How to train your first neural network model

Next, you will learn about some of the most important **specialized cases of model training**, including:

- *Similarity learning* and the basic features of a recommendation engine
- *Text classification* and the fundamentals of processing text in machine learning
- *Feature learning*, an essential task in feature engineering
- Anomaly detection
- Time-series forecasting.

Along the way, you will get practice with several hands-on labs, in which you will train a simple neural network, train a recommendation engine, train a text classifier, and get some experience with forecasting